

**Table S2.** Soil chemical properties of the 0 to 10 cm topsoil layer at different sampling sites

Soil properties	Forest sites			Pasture sites			Statistics F vs. P
	F1	F2	F3	P1	P2	P3	
pH	5.02 <sup>(1)</sup> ±0.5 <sup>(2)</sup>	5.25±0.6	4.75±0.3	4.97±0.2	4.91±0.1	5.26±0.3	ns <sup>(3)</sup>
N	0.09±0	0.13±0	0.06±0	0.13±0	0.13±0	0.17±0	***
C	1.16±0.2	1.52±0.6	0.69±0.3	1.79±0.6	1.75±0.2	2.06±0.2	***
C/N	12.20±1.2	11.93±1.7	12.85±1.1	13.31±1.7	13.53±0.9	12.26±0.5	*
P	7.89±1.4	10.56±4.8	5.56±2.1	6.78±1.9	5.89±0.9	14.78±5.1	ns
S	4.56±1.3	3.89±1.3	3.33±0.5	4.56±0.5	4.89±1.1	5.22±0.7	**
K	2.51±2.5	1.96±1.0	1.14±0.7	1.62±0.7	1.46±0.7	2.32±0.9	ns
Ca	18.44±7.9	34.33±22.4	7.44±4.0	15.0±7.1	11.33±2.2	18.22±2.3	ns
Mg	7.0±1.7	6.56±2.2	4.0±1.7	7.11±1.5	5.67±1.3	8.89±2.9	*
Al	0.78±0.7	0.44±1.1	2.33±1.1	1.0±0	1.22±0.4	1.11±0.3	ns
H+Al	27.56±4.4	27.67±4.4	25.44±10.7	32.0±5.1	36.78±3.8	33.67±4.5	***
CEC	55.51±8.2	70.51±21.0	38.03±13.7	55.73±12.3	55.23±4.2	63.10±2.7	ns
V	48.89±12.5	56.78±16.6	32.67±12.3	41.67±6.6	33.44±4.9	46.56±7.2	ns
m	3.56±2.1	2.78±4.5	18.78±11.5	4.56±1.3	6.56±3.2	3.89±1.6	ns

Ca, Mg, K, Al, potential acidity (H+Al), cation exchange capacity in pH 7 (CEC) are expressed in mmolc dm<sup>-3</sup>; P is expressed in mg dm<sup>-3</sup>; Al saturation index (m). Base saturation index (V).

<sup>(1)</sup> The values are averages based on nine replicate sampling points in each site

<sup>(2)</sup> Standard deviation of the average of nine soil replicates

<sup>(3)</sup> Tukey's honestly significant difference (HSD) test was performed considering forest vs. pasture including all sampling sites across 27 soil cores for forest sites and 27 soil cores for pasture sites. Significance levels: ns:  $P>0.05$ , \* $P<0.05$ , \*\* $P<0.005$ , \*\*\* $P<0.0005$